Droisert Title: Con	الشركة السعودية للكهرياء Saudi Electricity Company
Construction of New 132/13.8kV, 2nd Industrial City in	COMPLIANCE S

Project Title:

Substation Application:
SEC Ref.:
SEC Ref Date:

13/8778/303011 20/04/2013

2ND INDUSTRAL CITYS/S # 8162

Job Order No.: ABB Ref.:

ABB Ref. Date:

25.03.2013

FP-00007-E-0052.R1

Contract Number:

11131114/00

Riyadh Area.

COMPLIANCE STATEMENT

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Descri	Description / Doc #: S/S 8162 – AMRS Base Design	SEC Status:	
SL NO.	SEC COMMENTS	ABB'S RESPONSE	SEC DECISION/CONCLUSION
12	General	G G 1 1 AEC will intermed the AMD system for this	
}k	Manufacturer shall confirm that all the components of the DCU and Metering panels are National Grid SA approved.	Confirmed as AEC will integrate the AMK system for this project with the following approved SEC suppliers: • MCB – Schneider.	
	H	 FT Switches – ABB (FT-1 Style: 129A514G01). Terminal Blocks – Phoenix Or Weidmuller. 	
		 Panels – Al Fanar, MEMF or any other SEC approved 	
		suppliers.	o Dogovenia in Time I and I an
		 Bistable Relay – ABB (Part Number: RXMVB2) 	
		• ADDAD – AEC.	
1.2	Notes and legends table shall be updated.	The notes mentioned on Schematic Drawings are complete for that Schematic, also there is a Legend table provided	
		separately which covers all the components in AMR system provided by us.	
82	ACDB & DCDB Single Line Diagram (Section -		73366
	4, Drawing # CD-320752, Rev. 00, Sheet 01- 02/02)		
2.1	127VAC/220VAC (Sheet 01102):	Complied. Please Refer to the revised drawings.	
	The referred 'ACDB' drawing numbers are missing. Manufacturer/Contractor shall incorporate the missing		
	drawing numbers on the drawing.		" " " " " " " " " " " " " " " " " " "
2.2	125VDC (Sheet # 02/02):	Complied. Please Refer to the revised drawings.	
	The referred 'DCDB' drawing no. is missing.		
	Manufacturer/ Contractor shall incorporate the missing		
	drawing no. in the drawing.		

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	الشركة السعودية للكهرباء Saudi Electricity Company	
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Contract Number:

11131114/00

Construction of New 132/13.8kV, 2nd Industrial City in

ABB CONTRACTING LIMITED



Substation App SEC Ref.: SEC Ref Date:	Substation Application: 2 ND INDUSTRAL CITYS/S # 8162 SEC Ref.: 13/8778/303011 SEC Ref.: 20/04/2013	Job Order No.: ABB Ref.: FP-00007-E-0052.R1 ABB Ref. Date: 25.03.2013	
SEC R			
SEC R	7 ·	f. Date:	
(
Descrip)oc #:	SEC Status:	
SL NO.	SEC COMMENTS	ABB'S RESPONSE	DECISION/CONCLUSION
03	Communication System Diagram (Section - 5, Drawing # CD-320885, Rev. 00, Sheet 01101);	Please note that all the Telecom & SAS are still in design stage & the required interface will be done during the site	
	tch	activity.	
	and communication panel. Contractor shall prepare the		
	detailed communication system schematics diagram		
22	Schematics Diagram Metering Panel With 4		
]	Revenue Meters Without Relays (Section - 6,		
	Drawing # CD-320883, Rev. 00, Sheets 01-11/11)	Defents the period drawings	
4.1	127VAC & Grounding Connections inside Panel	Complied. Flease Refer to the revised diawnigs.	
	(sheet 02/11):		
	Missing drawing numbers of the 'ACDB & Next Panel'		A CONTRACTOR OF THE PARTY OF TH
	shall be incorporated on the drawings.	Complied Please Refer to the revised drawings.	A CONTRACTOR OF THE PARTY OF TH
4.2	127VAC & Grounding Connections inside Panel	Compiled: I lease welct to the textsea arawings.	
	Missing drawing numbers of the 'ACDB & Next Panel'		
	shall be incorporated on the drawings.		(0) (0) (0) (0) (0)
4.3	VT Connections Inside Panel, Telephone Line	Complied. Please Refer to the revised drawings.	
·	Connections (Sheet 04/11):		A CONTRACTOR OF THE PROPERTY O
\$=\$\tag{2}\$\$	Voltage level & drawing no. of interface voltage		
	transformer terminal box/terminal block is missing. It		
	shall be incorporating on the drawing.		
4.4	Revenue Meter Connection inside Panel (Sheets 05-	Complied. Please Refer to the revised drawings.	
	08/11):		
	The missing drawing no. of the C1 MK box shall be		

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	الشركة السعودية للكهرياء Saudi Electricity Company

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requirements shall be provided by the manufacturer without additional cost. It shall be confirmed by the

manufacturer.

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COMPLIANCE STATEMENT

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Project Title:	Construction of New 132/13.8kV, 2 nd Industrial City in Riyadh Area.	Industrial City in	Contract Number:	11131114/00	
SEC Ref:	13/8778/303011		ABB Ref.:	FP-00007-E-0052.R1	
SEC Ref Date:	20/04/2013		ABB Ref. Date:	25.03.2013	
Description / Doc #:	S/S 8162 – AMRS Base Design		SEC Status:		
SL NO. SEC COMMENTS	ENTS	ABB'S RESPONSE	SE		SEC DECISION/CONCLUSION
06 Schematics D Weter With I	Schematics Diagram of DCU Panel With PO Meter With Relay + 1 RM Without Relay				
(Section - 8, Dray	(Section - 8, Drawing # CD-320881, Rev. 00, Shoots 01-17/17):				
6.1 127VAC & T	127VAC & TEL Connections inside the Panel (sheet				
_		Camaliad plana p		drawings	
	The same comment as given above for item # 4.1.	Compiled, riease Neier to the		in item no 45	
b The same com	The same comment as given for item # 4.3.	Please refer to ABB response	o response in item no. 4.5.	10. 4.3.	
6.2 220V AC and (sheet 04/17):	and TEL Connections inside the Panel 17):	Complied. Please Refer to the revised drawings	lefer to the revised	drawings.	
The same com	The same comment as given above for item # 4.1.	בי לב לב ל		A E	
6.3 DCU, PC Communication the Panel (Sheet 05/17):	DCU, PC Communication Panel Connection Inside the Panel (Sheet 05/17):	Please refer to ABB response	3 response in item no. 4.5.	10. 4.5.	
	The same comment as given above for term # 4.5. 125VDC Connections Inside the Panels (Sheet		***************************************		+++++++++++++++++++++++++++++++++++++++
6.4 125 V D C Con 06/17)	nections inside the Panets (Silect			A 7	
a The same com	The same comment as given above for item # 4.5.	Please refer to ABB response	3 response in item no. 4.5.	10. 4.5.	
b Drawing no. a	Drawing no. and contact no. of the field contacts 'FQl and FQ2' shall be incorporated.	Complied. Please Refer to the revised drawings	Refer to the revised	drawings.	11
6.5 VT Connectic	Connections Inside Panels (Sheet 07/17):	44-44-44-44-44-44-44-44-44-44-44-44-44-	AAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		
	The same comment as given above for item # 4.3.	Complied. Please R	Complied. Please Refer to the revised drawings	drawings.	
b The same com	The same comment as given above for item # 4.5.	Please refer to ABB response	B response in item no. 4.5.	no. 4.5.	37.026 RIVES
6.6 Relay For PO	Relay For PO Meter (Sheet 08/17):	Complied. Please Refer to the	Refer to the revised	revised drawings.	Pacting
6.7 PO Meter Cor	PO Meter Connections Inside Panels (Sheet 09/17)				

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Project Title:		Industrial City in Contract	11131114/00	nguagaga kakin kilaka kilika k
Cilbar.	tion Application: 3 ND INDIFCTRAL CITYS/S # 8162	Job Order No.:		
SEC Ref	13/8778/303011	ABB Ref.:	FP-00007-E-0052.R1	
SEC R)ate:	ABB Ref. Date:	25.03.2013	**************************************
Descri	Description / Doc #: S/S 8162 – AMRS Base Design	SEC Status:		
SL NO.	SEC COMMENTS	ABB'S RESPONSE		SEC DECISION/CONCLUSION
а	'PQ I' shall be corrected as 'PQ', since this is the only	Please, note AEC is supplying to NG-SA a standard AMR DCU system in Design, Materials where the same was	r-SA a standard AMR nere the same was	
	station. Moreover, Abbreviations & Legends (Section	submitted to NG-SA for all AMR systems supplied by the AEC company in the previous projects.	stems supplied by the AEC	
	# 1) snall also be updated.	NG-SA is requested to accept the	he same & remove this	
<u> </u>		comment.		
5	The same comment as given above for item # 4.4.	Complied. Please Refer to the revised drawings	d drawings.	
6.8	Revenue Meter Connections Inside Panel (Sheet 10/17):	Complied. Please Refer to the revised drawings.	d drawings.	
	The same comment as give above for item # 4.4.		***************************************	
97	GA & LA Drawings of DCU Panel, IPO With			
	Relay And 1 RM Without Relay; 3P4W ADDAD			
	(Section - 9, Drawing # CD-320882, Sheets 01- 04/04)			
7.1	The same comment as given above for item # 5.1.	All dimensions, terminal blocks, wirings and terruling are as per the submitted clause by clause compliance statement for 31-TMSS-01.	ings and terruling are as ompliance statement for 31-	
7.2	The same comment as given above for item # 5.3.	Confirmed for AMR SOW only.		
18	Data Schedule for SEC/ National Grid – SA Specification 40-TMSS-03, Rev. 0	Noted.		
0 1	Comment Transformers (Page 28/38).	Noted Please note that the mentioned clause in 40-TMSS-03,	ed clause in 40-TMSS-03.	
ļ:	Contractor's reply 'Not Comply', for the data as	Rev. 0 is referring to Additional CT. where the there is no	where the there is no	S C C C C C C C C C C C C C C C C C C C
	prescribed under this item, is not acceptable. All the	additional CT will be utilized in AMR system which will be	R system which will be	
	information as prescribed under this item for CTs shall	connected directly to metering CTs Switchgear.	Switchgear.	Stacting Co.
	be indicated in the data schedule by the main	ABB is confirming that the AMR System will be connected	stem will be connected	
	Manuacinici of the inferior a chalce a minister.	directly to lifetering of a many awthingent with accuracy class	rigeal with accuracy class	



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Project Title:		Construction of New 132/13.8kV, 2 nd Industrial City in Rivadh Area.	idustrial City in	Contract Number:	11131114/00	
Substa	Substation Application:	2 ND INDUSTRAL CITYS/S # 8162		Job Order No.:	The state of the s	
SEC Ref.		13/8778/303011		ABB Ref.:	FP-00007-E-0052.R1	
SEC R	Date:	20/04/2013		ABB Ref. Date:	25.03.2013	A THE PROPERTY OF THE PROPERTY
Descrip)oc #:	S/S 8162 – AMRS Base Design		SEC Status:		
SL NO.	SEC COMMENTS		ABB'S RESPONSE	E		SEC DECISION/CONCLUSION
			0.2. NG-SA is requested to comment.	ed to accept the	same & remove this	
199	Clause by Clause Grid - SA Specif	Clause by Clause Compliance to SEC/ National Grid - SA Specification 40-TMSS-03, Rev. 0				
<u>9.1</u>	Clause # 4.1.29 Contractor's reply	,	Confirmed.			
	being used for AM 0.2.	being used for AMR System are with accuracy class 0.2.				
Ħ	Clause by Clause Grid S8 Specific: Contractor/Manufa	Clause by Clause Compliance to SEC/ National Grid S8 Specification 01-TMSS-Ol, Rev. 0 Contractor/Manufacturer has submitted the clause by	Complied. Please refer to the attached clause by clause compliance to National Grid SA Specification 01-TMS Rev. 01.	efer to the attached onal Grid SA Spec	Complied. Please refer to the attached clause by clause compliance to National Grid SA Specification 01-TMSS-01, Rev. 01.	
	clause compliance 01-TMSS-01, Rev	clause compliance to National Grid SA Specification 01-TMSS-01, Rev. 0, which is not applicable. As per				
	PTS (page 46/61), Specificat is applicable for this project for our review and approval	PTS (page 46/61), Specification 01-TMSS-01, Rev. 01 is applicable for this project which shall be submitted for our review and approval				AND STATE OF THE PARTY OF THE P
	Missing Documents The following missing docur for our review and approval:	Missing Documents The following missing documents shall be provided for our review and approval:				
)k }k	National Grid SA the locations of the	sub-station layout showing and DCU panels.	Noted. The Control Room L for NG-SA review / approva	Room Layout shall approval.	Noted. The Control Room Layout shall be submitted separately for NG-SA review / approval.	A Co. (ret notacesto) 22 CO. (ret 101002880) 23 CO. (ret 10202800)
11.2	Power & control c submittal.		Noted.	The state of the s		"macting Co
11.3	Revenue & PQ Moline diagram show	Revenue & PQ Meter logic / RMs & PQ Meter Single line diagram showing the CT & VT accuracy classes,	Complied. Please refer to the attached SLD	efer to the attached	1 SLD.	



burdens and connections to the meters.

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SEC DECISION/CONCLUSION	ABB'S RESPONSE		SL NO. SEC COMMENTS
	SEC Status:	S/S 8162 – AMRS Base Design	Description / Doc #:
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FP-00007-E-0052.R1	ABB Ref.:	13/8778/303011	SEC Ref.:
	Job Order No.:	2 ND INDUSTRAL CITYS/S # 8162	Substation Application:
	Number:	Riyadh Area.	L Olect
11131114/00	City in Contract	Construction of New 132/13.8kV, 2" Industrial City in	D

